

# Local Governments & Smart Growth

Examples from the Cities for Climate  
Protection® Campaign

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ICLEI- Local Governments for Sustainability

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# ICLEI – Local Governments for Sustainability



*A worldwide movement of local governments dedicated to achieving tangible improvements in global environmental conditions through CUMULATIVE LOCAL ACTION*

- Association of cities, towns, counties in over 50 countries
- 11 offices worldwide



# Cities for Climate Protection (CCP) Campaign

- Largest ICLEI program
- Over 770 participants worldwide
- 200 participants in U.S.
  - More than 20% of U.S. GHG emissions
  - 22% of U.S. population

## The CCP Milestone Process



# What ICLEI Provides

- ❑ Tools & methodology
- ❑ Greenhouse gas quantification software
- ❑ Technical assistance
- ❑ Training sessions
- ❑ Professional network
- ❑ Competitive grants
- ❑ Publications
- ❑ Interactive website

The screenshot displays the 'CCP Greenhouse Gas Emissions Software - US Edition' window. The 'Corporate Analysis' tab is active, showing a table of fuel usage and costs for the year 1999. The table lists various fuel types, their units, total use, and total cost. Below the table, there are sections for 'Indicator Inputs' and 'Notes Regarding Facility or Group Data'. At the bottom, a summary table shows the total energy, equivalent CO<sub>2</sub>, and cost.

Fuel Type	Fuel Units	Total Use	Total Cost
Electricity	(kWh)	100,000	30,000
Natural Gas	(cubic feet)	0	0
Landfill Methane	(cubic feet)	0	0
Sewage Gas	(cubic feet)	0	0
Biogas	(cubic feet)	0	0
Diesel	(US gal)	10,000	15,000
Light Fuel Oil	(US gal)	0	0
LPG	(US gal)	0	0
Refuse Derived Fuel	(tons)	0	0

Energy	(million Btu)	Equivalent CO <sub>2</sub>	(tons)	Cost	(\$)
	1,564		163		45,000

# Results from CCP Participants

Cumulative *local* actions have a positive impact on *global* climate change



A 2005 ICLEI Study of 160 CCP participants found that yearly **23 million tons** of eCO<sub>2</sub> is removed, saving \$ **535 million** in energy and fuel costs. This emissions reduction is =

- ❑ Yearly Heating & Cooling for 1.8 Million homes
- ❑ 2.1 Billions Gallons of Gasoline



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## CCP in Massachusetts- 30

Amherst	Lenox	Salem
Arlington	Lynn	Shutesbury
Barnstable	Medford	Somerville
Belmont	Natick	Springfield
Boston	Newburyport	Watertown
Brookline	Newton	Williamstown
Cambridge	Northampton	Winchester
Falmouth	Pioneer Valley PC	Worcester
Gloucester	Pittsfield	
Hull	Provincetown	
Ipswich	Reading	

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# Transportation & Climate Change Project

## Regional Initiative:

7 participants along I-91 corridor

- ❑ Brattleboro, VT
- ❑ Windham Regional Commission
- ❑ Chicopee, MA
- ❑ Holyoke, MA
- ❑ Northampton, MA
- ❑ Pioneer Valley Planning Commission
- ❑ Hartford, CT

# Transportation & Climate Change Project

## Goal:

- ❑ Create and link viable local & regional strategies to address GHG and CAP emissions associated with VMT through smart growth initiatives

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- ❑ Can't manage what you don't measure
  - ❑ Need to link the planners with the tools
  - ❑ Transportation needs to be addressed regionally



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# Transportation & Climate Change Project

## Project Activities- Phase I

- ❑ Completion of 5 local emissions inventories and action plans on the transportation sector
- ❑ Development of I-91 Corridor Strategy

## Project Activities- Phase II

- ❑ Bring together stakeholders throughout region
- ❑ Transportation Finance Dialogues
- ❑ Implementation of local and regional action plans

# Brattleboro Inventory and Reduction Targets

## INVENTORY

- 45% of Brattleboro's greenhouse gas emissions are produced by the transportation sector.
- Overall transportation emissions rose by 5.5% from 2000 to 2004.
- Emissions from I-91 rose by 2.1%.
- Emissions from other streets and roads rose by 6.8%.

## REDUCTION TARGETS

- Reduce transportation emissions to 2000 levels by 2010
- Reduce transportation emissions to 10% below 2000 levels by 2020

By reducing emissions, Brattleboro aims to address global climate change at the local level, while improving public health, air quality, dependence on foreign oil, and overall quality of life.

# Encourage Transit-Oriented Development

**CO2 Savings:** 2,200 tons

**Co-Benefits:** Enhanced public safety, public health, and quality of life.  
Increased convenience for residents and businesses.

- In February 2005, Town approved the **Putney Road Master Plan**, a 50-acre mixed use center that is pedestrian-oriented and provides a rich sense of place. Its goals include:
  - ❑ Adding housing to offer the opportunity for live-work-shop places.
  - ❑ Providing a mix of uses within close proximity to minimize reliance on automobiles.
  - ❑ Providing housing opportunities for all incomes.
  - ❑ Providing a pedestrian-friendly environment.
  - ❑ Minimizing the amount of land devoted to parking.
  - ❑ Managing traffic so that the public realm can be used by pedestrians and bicyclists.
  - ❑ The Master Plan will be implemented through future zoning changes.

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# Brattleboro, VT

- Location Efficient Mortgages
- Roads
  - Adding medians and roundabouts
- Safe Routes to School
- Anti-Idling Campaign
- Public Transit
  - Bee-Line Ridership up 30% in six months
  - Running on Biodiesel (B20 blend)

# Chicopee, MA

Brownfield Development

Mixed-Use Zoning  
Districts

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Location Efficient  
Mortgages

Industrial Park Carpools

EnergyStar Home  
Ordinance



Chicopee Center, Cabotville Mills, Ames Privilege

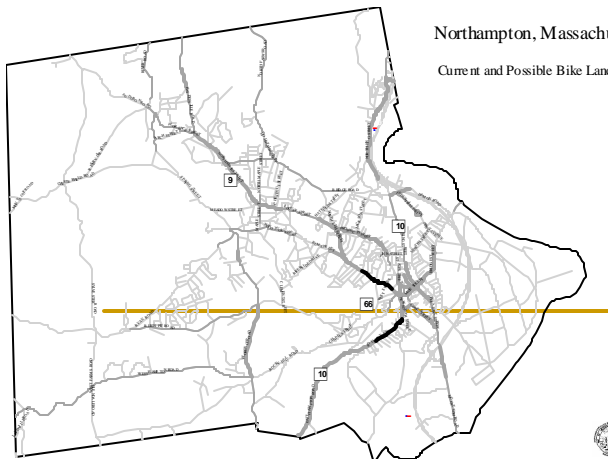
# Northampton, MA

## Bicycle and Multi-Use Travel

- ❑ Bicycle lanes on arterials and collector roads
- ❑ Transform bike paths into rail trail network
- ❑ Bicycle storage (public and private)

## Parking

- ❑ Ensure walkable downtown
- ❑ Park-and-ride lots (Leeds and Hospital Hill)
- ❑ Employee Cash Out Program:
  - 200 tons annually; 5-10% reduction in VMT





# Holyoke, MA

- Neighborhood schools
- Mixed-use Zoning Districts



- Bike Lanes
- Canal Walk

# Hartford, CT

- Promote Telecommuting
- Buy more alternative fuel vehicles
- School bus diesel retrofit
- Expand LED traffic lights/crossing lights
- Explore ZipCar/FlexCar
- Implement Transit Oriented Development





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# Transportation & Climate Change Project: Tools

- Clean Air & Climate Protection Software
- MA Smart Growth Toolkit
- Center for Clean Air Policy's Guidebook and Emissions Calculator
- ICLEI's Density VMT Calculator
- ICLEI's Network

# Concord Commons: Concord, MA



- Mixed use neighborhood surrounding train station
- Retail space, restaurants, housing, office space
- Dedicated commuter parking

# Somerville, MA: Davis Square

- Development Oriented around the T
- Mix of commercial, residential, employment
- Streetscape Improvements: Street lighting, tree plantings, sidewalks



*Ground level Davis Square shops with offices above*



*Revitalized multi-family housing adjacent to Red line Station*



*Renovated Somerville Theater*

# Sacramento's Transit Village Redevelopment

- Mixed use, transit-oriented development in East Sacramento.
- Goal: improve pedestrian and bicycle circulation, increase residents' access to light rail system
- Predicted VMT reduction 2,000/year



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